

CLAIMS

1 1. The method for manufacturing and testing semiconductor components comprising
2 the steps of:

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4 providing a plurality of semiconductor devices;

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6 providing a device carrier, said carrier having interconnect wiring therein
7 sufficient for both testing and end use operation of said semiconductor devices;

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9 attaching said semiconductor devices to said carrier;

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11 testing said devices via said wiring; and

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13 dividing said carrier into a plurality of components wherein each said component
14 contains at least one said semiconductor device.

1 2. The method according to claim 1, further comprising the step of installing one
2 said component on a next level of assembly without separating said device from
3 said carrier.

1 3. The method according to claim 1, further comprising the step of installing one
2 said component in an information handling system without separating said device
3 from said carrier.

1 19. The method according to claim 18, wherein said flex comprises leads, said
2 method further comprising separating adjacent leads from each other to facilitate
3 connection to said second carrier.

1 20. The method according to claim 18, wherein a plurality of said components are
2 connected to said second carrier to form an interconnected stack.

1 21. The method according to claim 1, wherein said carrier comprises connectors for
2 connecting semiconductor devices on two sides of said carrier.

1 22. The method according to claim 1, further comprising the step of encapsulating
2 said semiconductor devices and said carrier in an encapsulant.

1 23. The method according to claim 1, further comprising the step of identifying
2 defective semiconductor devices.

1 24. The method according to claim 23, further comprising the step of invoking
2 redundancy to repair said defective devices.

1 25. The method according to claim 23, further comprising the step of removing and
2 replacing said defective semiconductor devices with replacement semiconductor
3 devices.

1 26. The method according to claim 25, further comprising the step of repeating said

1 32. A semiconductor structure comprising:
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3 a stack of flex device carriers, at least one semiconductor device mounted to each
4 said flex carrier; and
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6 an interconnect substrate, wherein said flex device carriers are electrically
7 connected to said interconnect substrate.

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